

## P A T E N T   C L A I M S

1. Biodegradable composition with prolonged release of biologically active compound, characterised in that it comprises at least one biologically active compound and a carrier, consisting of biodegradable oligoester, having the number mean molecular weight  $M_n$  from 650 to 7 500, the weight mean molecular weight  $M_w$  from 800 to 10 000 and the glass transition temperature  $T_g$  from -35 to 45 °C, and which is prepared by polycondensation reaction of polyhydric alcohol containing at least 3 hydroxy groups with at least one aliphatic  $\alpha$ -hydroxy acid in the molar ratio of polyhydric alcohol to aliphatic  $\alpha$ -hydroxy acid being from 0.5:99.5 to 12:88, wherein the central molecule of biodegradable oligoester is a polyhydric alcohol, to the hydroxy groups of which chains created from several molecules of at least one aliphatic  $\alpha$ -hydroxy acid are bound by ester bonds.
2. The composition according to claim 1, characterised in that it comprises as biologically active compound an anti-tumour agent, wherein the weight ratio of anti-tumour agent to carrier is from 1:1 to 1:100 000.
3. The composition according to claim 1, characterised in that it comprises as biologically active compound an anti-microbial agent, wherein the weight ratio of anti-microbial agent to carrier is from 1:1 to 1:100 000.
4. The composition according to claim 1, characterised in that it comprises as biologically active compound a compound with hormonal activity, wherein the weight ratio of compound with hormonal activity to carrier is from 1:1 to 1:100 000.
5. The composition according to claim 1, characterised in that it comprises as biologically active compound an immuno-stimulating compound, immuno-suppressive compound, diagnostically useful compound, dietary supplements or/and cosmetically useful compounds; wherein the weight ratio of the biologically active compound to carrier is from 1:1 to 1:100 000.

6. The composition according to claims 1 to 5, characterised in that it is in the form of homogeneous one-phase solution, micellar colloid system, one-phase or two-phase gel, suspension, paste or emulsion.

7. The composition according to claims 1 to 5, characterised in that it further comprises at least one liquid biocompatible plasticizer, wherein the weight ratio of at least one biocompatible plasticizer to biodegradable oligoester is from 1:20 to 9:10.

8. The composition according to claim 7, characterised in that the liquid biocompatible plasticizer is soluble in carrier and sparingly soluble or insoluble in water.

9. The composition according to claims 1 to 5 and 7, characterised in that it further comprises at least one agent influencing the kinetics of biologically active compound release.

10. The composition according to claims 1 to 5, 7 and 9, characterised in that it further comprises at least one stabilizer of biologically active compound or carrier.

11. The preparation of the composition according to claims 1 to 10, characterised in that a biologically active compound, carrier, and optionally a liquid biocompatible plasticizer, agent influencing the kinetics of biologically active compound release, stabilizer of biologically active compound or stabilizer of carrier are heated to the temperature of 35 to 75 °C and mixed.